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July – December 2001

Subject Index (M – Z)

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SIX-MONTHLY INDEXES TO ELECTRICAL & ELECTRONICS ABSTRACTS

Twice a year as part of their subscription to Electrical & Electronics Abstracts, subscribers receive cumulative indexes for the periods January-June and July-December. Each index is in two parts – a Subject Index, and an Author Index which comprises personal and corporate author indexes, and indexes to conferences and book titles. The List of Journals abstracted by INSPEC is also included with the July-December issue of the Author Index, while the supplement to that List is included with the January-June issue. Cumulative indexes for earlier years are also available: for details please see the inside back cover.

Subject index

The Subject index provides an alphabetical subject key to the articles included in the abstracts journal. Some general guidance on its use is given below:

1. Look in the index for the name of the specific subject in which you are interested. In most cases this name will be a heading in the index and you will find relevant articles under it. The majority of the subject headings fall into the following categories: property, phenomenon, substance or named objects, instrument, device, theory, method, process, application, event.

2. Occasionally you will be directed from the subject heading chosen to a different heading under which the relevant or additional articles are listed.

3. If you do not find the subject heading you first chose, try a more general heading.

4. Each entry under the heading relates to an article appearing in the abstracts journal and gives the serial number of that article in the journal, e.g. 12345 refers to abstract number 12345 for the period covered by the Index.

The language of the article, if it is not in English, is also indicated, e.g. amplification of information signals in chaotic masking (*Japanese*) 34992.

Each entry starts with a Keyword or Keyphrase considered to be most relevant to the heading. On sorting these Keywords, the qualifying prefixes are usually ignored (e.g. α-brass, 5-sulphosalicylic, 31 Gygni, n-Ge are sorted under brass, sulphosalicylic, Cygni, Ge respectively).

There are three main Keyword lists: alphabetical A-Z, elementary particles, and chemical symbols (organic substances are written and not given as chemical formula). More than one Keyword list may be present under each subject heading.

For document on, say, 'photoemission of germanium' at least two access points 'photoemission' and 'germanium' are provided. Under the heading 'photoemission' the Keyword will be 'Ge' and under 'germanium' the Keyword will be 'photoemission'.

In a case like this, it is advisable and quicker to use the heading 'photoemission' and go straight to the chemical symbol list for 'Ge'.

Intermetallic compounds are indexed under the appropriate alloy headings. The chemical formula is used as Keyword. However, it is important to realise in searching the chemical symbol list that, at present, allows and intermetallic compounds are sorted separately. For example FeCo is sorted at the end of the Fe-list e.g. Fe-Al,... Fe-Co,... Fe-Si,... Fe-Si-B,... FeCo,... FeSi and so on in this order.

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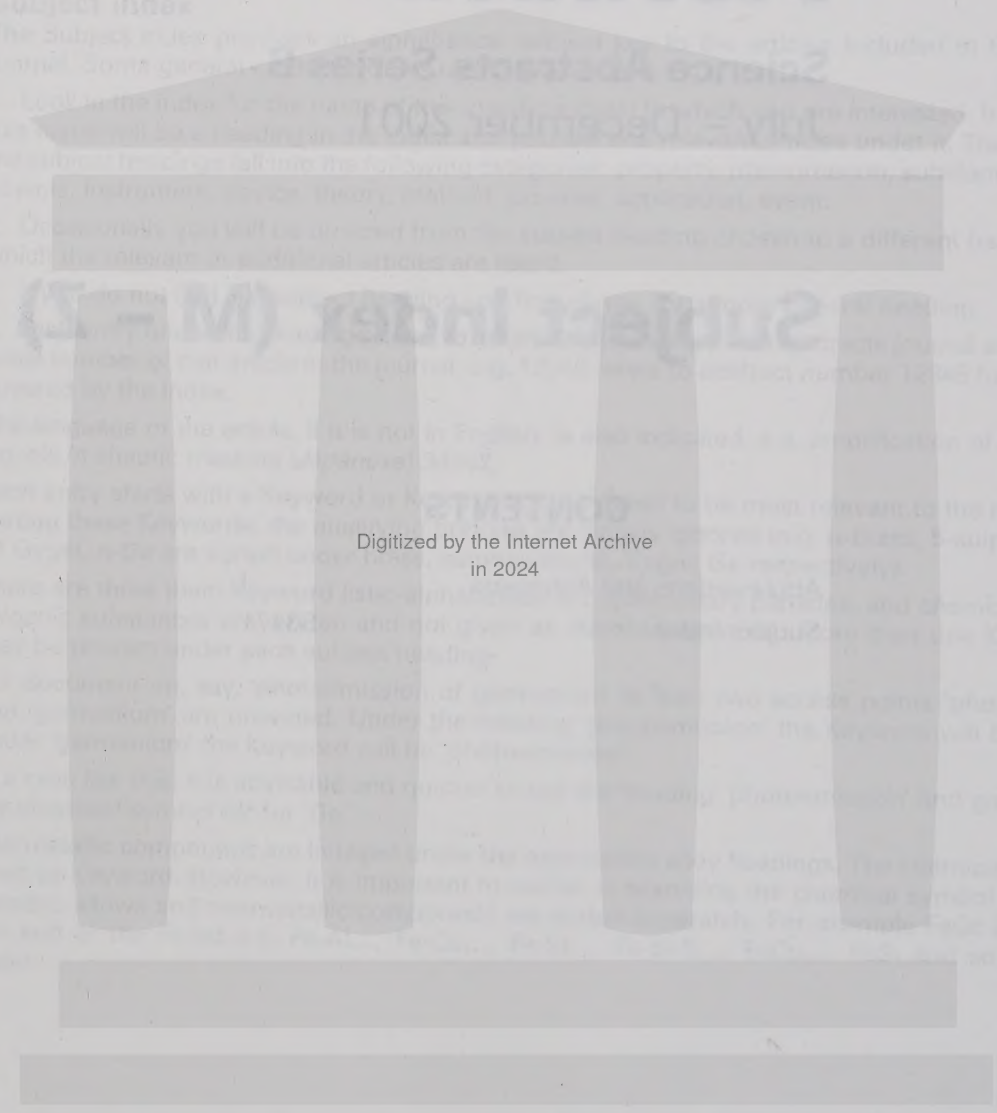
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Abbreviations and Acronyms

Abbreviations and acronyms are used in the modifiers in all INSPEC Cumulative Subject Indexes. Individual terms should be readily understood in the context of the subject headings. **Inorganic substances** are usually given by their chemical formulae. **Organic substances** including **liquid crystals** and **polymers** are not given as formulae but common abbreviations are used.

1D	one-dimensional
2D	two-dimensional
2DEG	2D electron gas
3D	three-dimensional
4GL	fourth generation language
A/D	analogue-to-digital
AAL	ATM adaptation layer
AAS	atomic absorption spectrometry (-oscopy)
ABC	absorbing boundary condition *or* aerial bundled cables/conductors
ABR	available bit rate
ABS	acrylonitrile-butadiene-styrene
AC	alternating current
ACD	automatic call distribution
ACEL	AC electroluminescent
ACI	adjacent channel interference
ACQW	asymmetric coupled quantum well
ACRT	accelerated crucible rotation technique
ACSR	aluminium conductor steel reinforced
ACT	acoustic charge transport
ACTFEL	AC thin film electroluminescent
ACTS	advanced communication technology and services *or* Advanced Communication Technology Satellite
ACTV	advanced compatible television
ACV	air cushion vehicle
ADC	analogue-to-digital conversion(-ter)
ADM	adaptive delta modulation *or* add-drop multiplexer
ADP	administrative data processing
ADPCM	adaptive differential PCM
ADS	automatic depressurisation system
ADSL	asymmetric digital subscriber line
ADTV	advanced definition television
AE	acoustic emission
AEA	American Electronics Association
AES	Auger electron spectra (-oscopy)
AF	audio-frequency
AFBC	atmospheric fluidised bed combustion
AFC	automatic frequency control
AFL	abstract family of languages
AFM	atomic force microscopy
AFMR	antiferromagnetic resonance
AFR	away from reactor (spent fuel storage)
AGB	asymptotic giant branch
AGC	automatic gain control
AGN	active galactic nucleus (nuclei)
AGR	advanced gas-cooled reactor
AGS	alternating gradient synchrotron
AGV	automatic guided vehicle
AHDL	analogue HDL
AHP	analytic hierarchy process
AI	artificial intelligence
AIC	adaptive interference canceller
AIN	advanced intelligent networks
ALARA	as low as reasonably achievable
ALE	atomic layer epitaxy *or* adaptive line enhancer
ALGOL	Algorithmic Language
ALS	Advanced Light Source
ALU	arithmetic logic unit
ALV	autonomous land vehicle
ALWR	advanced light water reactor
AM	air mass number *or* amplitude modulation
AM/FM	automated mapping/facilities management
AMLCD	active matrix liquid crystal display
AMPS	Advanced Mobile Phone System
AMPTE	Active Magnetospheric Particle Tracer Explorers
AMR	automatic meter reading
AMS	accelerator mass spectroscopy
AMTEC	alkali metal thermoelectric convertor
ANA	automatic network analyser
ANN	artificial neural network
ANOVA	analysis of variance
ANS	Advanced Neutron Source
ANSI	American National Standards Institute
AO	acousto-optic(al)
AOI	automatic optical inspection
APACHE	Accelerator for Physics and Chemistry of Heavy Elements
APC	adaptive predictive coding
APCM	adaptive PCM
APCVD	atmospheric pressure CVD
APD	antiphase domain *or* avalanche photodiode
APFIM	atom probe field ion microscopy
API	application programming interface
APK	amplitude phase keying
APL	A Programming Language
APS	Advanced Photon Source *or* appearance potential spectra (-oscopy)
APW	augmented plane wave
APWR	advanced pressurised water reactor
ARC	antireflection coating
ARET	accelerated reliability enhancement testing
ARINC	Aeronautical Radio Inc.
ARMA	autoregressive moving average
ARMAX	ARMA exogenous
ARPA	Advanced Research Projects Agency
ARPES	angle resolved photoemission spectra (-oscopy)
ARQ	automatic repeat request
ARROW	antiresonant reflecting optical waveguide
ART	adaptive resonance theory
ARUPS	angular resolved UPS
ASCII	American Standard Code for Information Interchange
ASD	adjustable speed drives
ASE	amplified spontaneous emission
ASIC	application-specific integrated circuit
ASIP	application-specific integrated processor
ASK	amplitude shift keying

ASN	abstract syntax notation
ASPSK	antipodal Stokes parameters shift keying
ASQC	American Society of Quality Control
ASSP	application-specific standard product
AST	accelerated stress testing
AT&T	American Telephone & Telegraph
ATC	air traffic control
ATCS	Advanced Train Control System
ATE	automatic test equipment
ATF	Advanced Toroidal Facility
ATG	automatic test generation
ATLAS	Abbreviated Test Language for Avionic Systems
ATM	asynchronous transfer mode *or* automatic teller machine *or* Axilrod-Teller-Moto
ATMS	assumption-based truth maintenance system
ATPG	automatic test pattern generation
ATR	attenuated total reflection *or* automatic target recognition
ATS	automatic test system
ATV	advanced television
ATW	accelerator transmutation of (radioactive) waste
ATWS	anticipated transients without scram
AUV	autonomous underwater vehicle
AVC	automatic volume control
AVHRR	advanced very high-resolution radiometer
AWGN	additive white Gaussian noise
B-ISDN	broadband ISDN
BAER	brainstem auditory evoked response
BARITT	barrier injection transit time
BASIC	Beginners' All-purpose Symbolic Instruction Code
BAW	bulk acoustic wave
BBC	British Broadcasting Corporation
BBD	bucket-brigade device
BBGKY	Bogoliubov-Born-Green-Kirkwood-Yvon
BCB	benzocyclobutene
BCC	body-centred cubic
BCD	binary-coded decimal
BCDMOS	bipolar-CMOS-DMOS
BCH	Bose-Chadhuri-Hocquenghem
BCS	Bardeen-Cooper-Schrieffer
BCT	body centred tetragonal
BDD	binary decision diagram
BEBC	Big European Bubble Chamber
BEC	Bose-Einstein condensate (-ation)
BEDT-TTF	bis(ethylenedithio)-tetrathiafulvalene (-inium)
BEEM	ballistic electron emission microscopy
BEM	boundary element method
BEOL	back-end-of-line
BEPC	Beijing Electron Positron Collider
BER	bit error rate
BERT	bit error rate tester
BESOI	bond-and-etchback silicon on insulator
BFL	buffered FET logic
BFN	beam-forming network
BFO	beat-frequency oscillator
BGA	ball grid array
BGO	bismuth germanate
BH	buried heterostructure
BIBO	bounded input, bounded output
BiCMOS	bipolar CMOS
BiFET	bipolar FET
BIL	buried injection logic
BILBO	built-in logic block observation
BiMOS	bipolar metal-oxide-semiconductor
BIOS	basic input/output system
BIS	bremsstrahlung isochromat spectroscopy
BISDN	broadband ISDN
BISR	built-in self-repair
BIST	built-in self-test
BIT	built-in test
BITE	built-in test equipment
BJT	bipolar junction transistor
BLDCM	brushless DC motor
BNFL	British Nuclear Fuels plc
BOC	Bell Operating Company
BOD	bistable optical device
BOLD	blood oxygenation level dependence(-ent)
BOX	buried oxide
BP	backpropagation *or* British Petroleum
BPM	beam propagation method
BPR	business process reengineering
BPSG	borophosphosilicate glass
BPSK	binary phase shift keying
BPX	burning plasma experiment
BRDF	binomial reflectivity distribution function
BRET	breeder reprocessing engineering test
BSDL	Boundary Scan Description Language
BSG	borosilicate glass
BSI	British Standards Institution
BT	British Telecom
BTA	Basic Technology Accelerator
BTSC	Broadcast Television Systems Committee
BVP	boundary value problem
BWG	beam waveguide
BWIP	Basalt Waste Isolation Project
BWO	backward wave oscillator
BWR	boiling water reactor
BWT	backward wave tube
C-V	capacitance-voltage
C/N	carrier-to-noise
C^2	command and control
C^3	command, control and communications
C^3I	command, control, communications and intelligence
C^3L	complementary constant current logic
C^4	command, control, communications and computers
C^4I	command, control, communications, computers and intelligence
C4	controlled collapse chip connection
CAA	computer-aided analysis
CAA(A)	Clean Air Act (amendments)
CAAD	computer-aided architectural design
CAD	computer-aided design
CADAT	computer-aided design and testing
CADD	computer-aided drafting and design
CAE	computer-aided engineering
CAES	compressed air energy storage
CAGD	computer-aided geometric design
CAI	common air interface *or* computer-assisted instruction
CAIBE	chemically assisted ion beam etching
CAL	computer-aided learning
CALL	computer-assisted language learning
CALS	commerce at light speed *or* computer-aided acquisition and logistic(s) support

AM computer-aided manufacturing *or* content addressable memory

AMAC computer automated measurement and control

AN controller area network(ing)

ANDU Canadian deuterium uranium

APP computer-aided process (production) planning

AQ computer-aided quality assurance

AR computer-aided retrieval

ARL chemical amplification of resist lines

ARM cyclotron autoresonance maser

ARS coherent anti-Stokes Raman scattering (spectra)

ART classification and regression trees

ASE computer-aided software engineering

ASS consolidated automated support system

AT computer-assisted tomography *or* computerised axial tomography

ATR compact antenna test range

ATT controlled avalanche transit transistor

ATV cable TV *or* community antenna TV

AV constant angular velocity

B citizens band

BE chemical beam epitaxy

BED convergent beam electron diffraction

BI computer-based instruction

BL computer-based learning

BOOA cyanobenzylidene octyloxyaniline

BR case-based reasoning *or* constant bit rate

BT computer-based training

C coupled channels *or* calculus of constructions

CBA coupled channel Born approximation

CCS current-controlled current source

CD charge-coupled device

CFL counter current flow limiting (LOCA phenomenon)

CI co-channel interference

CII second generation current conveyor

CIR International Radio Consultative Committee

CITT International Telephone & Telegraph Consultative Committee

CL capacitor coupled logic

CN cloud condensation nucleus/nuclei

CS common channel signalling *or* calculus of communicating systems

CTF Cylindrical Core Test Facility

CTR Culham Conceptual Tokamak Reactor

CTV closed circuit TV

CVS current-controlled voltage source

D compact disc *or* critical dimension

D-I compact disc - interactive

D-ROM compact disc ROM

D-RW compact disc - rewritable

D-V compact disc - video

DD concurrent decision diagram

DFR Commercial Demonstration Fast Reactor

DI collector diffusion isolation

DLC cellular data link control

DM code division multiplexing *or* charged device model *or* cold dark matter

DMA code division multiple access

DP common depth point

DW charge-density wave

CEBAF Continuous Electron Beam Accelerator Facility

CECL cascade-emitter coupled logic

CELP code excited linear prediction

CEM channel electron multiplier

CEMS conversion electron Mössbauer spectra (-oscopy)

CEO chief executive officer

CEPA coupled electron pair approximation

CEPT Conference of European Postal and Telecommunications

CERDIP ceramic dual-in-line package

CERN European Council for Nuclear Research

CESAR CERN Electron Storage and Accumulation Ring

CESR conduction electron spin resonance

CETI contact with extraterrestrial intelligence

CFA continued fraction approximation

CFAR constant false alarm rate

CFBC circulating fluidised bed combustion

CFC chlorofluorocarbon

CFD computational fluid dynamics

CFIE combined field integral equation

CFSK coherent frequency shift keying

CFT conformal field theory

CGA colour (*or* computer) graphics adapter

CGH computer-generated holography (-gram)

CGI Common Gateway Interface

CGTO contracted Gaussian-type orbital

CHF coupled Hartree-Fock

CHILL CCITT High-Level Language

CHINT charge injection transistor

CHO Chinese hamster ovary

CHP combined heat and power

CI configuration interaction

CICC cable-in-conduit conductor

CID charge injection device

CIDEP chemically induced dynamical electron polarisation

CIDNP chemically induced dynamical nuclear polarisation

CIIL Common Instrument Interface Language *or* Control Intermediate Interface Language

CIM computer integrated manufacture (-ing) *or* constituent interchange model

CIO chief information officer

CIRC cross-interleaved Reed-Solomon code

CISC complex instruction set computer

CIT Compact Ignition Tokamak

CL cathodoluminescence

CLAN cordless LAN

CLC cholesteric liquid crystal

CLCC ceramic leaded chip carrier

CLEC competitive local exchange carrier

CLOS command-to-line-of-sight

CLP constraint logic programming

CLV constant linear velocity

CMA constant modulus algorithm

CMAC cerebellar model arithmetic computer *or* cerebellar model articulation controller

CMB core-mantle boundary

CMD colour-magnitude diagram(s)

CME coronal mass ejection(s)

CMI computer managed instruction

CMIP	Common Management Information Protocol
CML	current-mode logic
CMM	coordinate measuring machine *or* Capability Maturity Model
CMOS	complementary metal-oxide-semiconductor
CMP	chemical mechanical polishing (planarisation)
CMR	colossal magnetoresistance *or* common-mode rejection
CMRR	common-mode rejection ratio
CMS	cable management system
CMV	common-mode voltage
CMVR	common-mode voltage ratio
CNC	computerised numerical control
CNDO	complete neglect of differential overlap
CNF	conjunctive normal form
CNN	cellular neural net(work)
CNR	carrier-to-noise ratio
CNS	central nervous system
CO	central office
COB	chip-on-board
COBOL	Common Business Oriented Language
COCOMO	cost complexity model(ling)
COD	crack opening displacement
COFDM	coded orthogonal FDM
COG	chip-on-glass
COIL	chemical oxygen-iodine laser
COM	computer output to microform (fiche or film) *or* coupling of modes *or* Component Object Model
COMFET	conductivity-modulated FET
CORBA	Common Object Request Broker Architecture
CORDIC	coordinate rotation digital computer
COTS	commercial off-the-shelf
COVA	computer code validation
CP	charge, parity
CP-MAS	cross-polarisation MAS
CPA	coherent potential approximation *or* critical path analysis
CPC	compound parabolic concentrator
CPE	customer premises equipment
CPFSK	continuous phase FSK
CPLD	complex programmable logic device
CPM	continuous phase modulation *or* critical path method
CPN	coloured Petri net *or* customer premises network
CPS	coplanar strip(line)
CPSK	coherent phase shift keying
CPT	charge, parity, time
CPU	central processing unit
CPV	common pressure vessel
CPW	coplanar waveguide
CQPSK	coherent quadrature PSK
CRBR	Clinch River Breeder Reactor Project
CRC	cyclic redundancy check
CRCW	concurrent read, concurrent write
CRDA	control rod drop accident
CREAM	cosmic radiation environment and activation monitor
CREDO	cosmic radiation environment dosimetry experiment
CREW	concurrent read, exclusive write
CRMA	cyclic reservation multiple access
CRNL	Chalk River Nuclear Laboratories
CRO	cathode ray oscilloscope
CRSR	coherent resonant Stokes rotation
CRT	cathode ray tube
CS	coupled states
CSCW	computer supported cooperative work
CSI	current source invertor
CSM	continuous slowing down models
CSMA/CD	CSMA with collision detection
CSMA	carrier sense multiple access
CSP	channel substrate planar *or* chip-scale packaging *or* communicating sequential processes *or* constraint satisfaction problem
CSRS	coherent Stokes-Raman spectra (-oscopy)
CSS	contact start/stop
CSSB/AM	companded single-sideband AM
CSTR	continuous stirred tank reactor
CSVT	close-spaced vapour transport
CT	computerised tomography *or* current transformer
CT1/2/3	cordless telephony (of 1st, 2nd, 3rd generation)
CTD	charge transfer device
CTE	coefficient of thermal expansion
CTI	computer telephony integration
CTL	complementary-transistor logic
CTR	controlled thermonuclear reactor
CUI	character-based user interface
CUT	circuit under test
CV	cataclysmic variable(s)
CVD	chemical vapour deposition
CVI	chemical vapour infiltration
CVSDM	continuously-variable slope delta modulation
CVT	chemical vapour transport
CW	continuous wave
CZ	Czochralski
D/A	digital-to-analogue
DAB	digital audio broadcasting
DAC	digital-to-analogue conversion(-ter)
DACS	digital access and cross-connect system
DAD	digital audio disc
DAG	directed acyclic graph
DAI	distributed artificial intelligence
DAMA	demand assigned multiple access
DAQ	data acquisition
DARMA	deterministic autoregressive moving average
DARPA	Defense Advanced Research Projects Agency
DASD	direct access storage device
DAT	digital audio tape
DATAC	digital autonomous terminal access communication
DAW	dry active waste
DBMS	database management system
DBPSK	differential-binary phase-shift keying
DBR	distributed Bragg reflector
DBS	direct broadcasting by satellite
DC	direct current
DC-PBH	double-channel PBH
DCA	direct chip attach *or* dynamic channel allocation
DCE	distributed computing environment

CEL direct current electroluminescent
CFL direct-coupled FET logic
CG dichromated gelatin
CLC drift cyclotron loss cone (instability)
COM Distributed Component Object Model
CS digital cross-connect system *or* digital cellular service (system) *or* distributed control system
CT discrete cosine transform
CTL direct-coupled transistor logic
CVS differential cascode voltage switch
DC direct digital control
DE dynamic data exchange
DL diode-diode logic
DS direct digital synthesis
E differential equation
ECENT distribution of exact classical energy transfer
ECT digital European cordless telecommunication (*or* telephone)
EDS discrete event dynamic system
EFT density functional theory
EM digital elevation model(s)
EMUX demultiplexer(-ing)
ENOX nitrogen oxides removal
ES data encryption standard
ESIRE diffusion enhanced silylating resist
ESY Deutsches Electron Synchrotron
EVS discrete event system specification
F Dirac-Fock
FB distributed feedback
FE decision feedback equaliser *or* design for environment
FG difference frequency generation
FM design for manufacture(-ability)
FT discrete Fourier transform *or* design for testability
FWM degenerate four-wave mixing
GPS differential GPS
H double heterostructure
HBT double heterojunction bipolar transistor
HF Dirac-Hartree-Fock
HT discrete Hartley transform *or* discrete Hilbert transform
IAL differential-absorption lidar
IBL drain induced barrier lowering
IC digital integrated circuit
IET desorption induced by electronic transitions
IL dual-in-line
IP DIL package
IS deep inelastic scattering *or* distributed interactive simulation
ITE Divertor in Torus Experiment
LA diffusion limited aggregation
LC diamond-like carbon
LL delay lock loop *or* dynamic link library
LMS delayed least mean squares
LTS deep level transient spectra (-oscopy)
M delta modulation
MA direct memory access
MC dynamic matrix control
MD digital micromirror device
MM digital multimeter
MOS double-diffused metal-oxide-semiconductor
DMSK differential minimum shift keying
DMSO dimethylsulphoxide
DMU decision-making unit
DNA deoxyribonucleic acid *or* Digital Network Architecture
DNF disjunctive normal form
DNMR double nuclear magnetic resonance
DNS domain name system
DNTS digital data exchange network testing system
DOA direction of arrival
DOBAMBC p-decyloxybenzylidene p'-amino 2-methyl butyl cinnamate
DoD Department of Defense (USA)
DOE Department of Energy (USA) *or* design of experiments *or* diffractive optical element
DOF degree(s) of freedom
DOI document object identifier
DOPSK differential offset phase shift keying
DORIS Doppel-Ring-Speicher
DOS disc operating system *or* density of states
DOVETT double velocity transit time
DOX design of experiments
DP data processing
DPCM differential PCM
DPDA deterministic pushdown automaton
DPIV digital particle image velocimetry
DPLL digital phase locked loop
DPOAE distortion product otoacoustic emission
DPPC dipalmitoyl phosphatidyl chloride
DPPH diphenylpicrylhydrazyl
DPS distributed parameter system
DPSK differential phase shift keying
DQDB distributed queue dual bus
DQPSK differential quadrature PSK
DRAM dynamic RAM
DRO dielectric resonator oscillator
DS-SS direct sequence spread spectrum
DS-SSMA direct sequence SSMA
DSA digital subtraction angiography
DSAM Doppler shift attenuation method
DSB double sideband
DSC differential scanning calorimetry
DSF dispersion shifted fibre
DSI digital speech interpolation
DSL digital subscriber line
DSM demand side management
DSO digital storage oscilloscope
DSP digital signal processor (-ing)
DSRC dedicated short-range communications
DSS decision support system *or* digital subscriber signalling
DST discrete sine transform
DTA differential thermal analysis
DTL diode transistor logic
DTMF dual tone multi-frequency
DTP desktop publishing
DTPP Demonstration Tokamak Power Plant
DTU dual topological unitarisation
DUT device under test
DUV deep UV
DV-Xα discrete variational Xα
DVD digital versatile (*or* video) disc
DVI digital video interactive
DVM digital voltmeter

DWBA	distorted wave Born approximation
DWDM	dense WDM (multiple access)
DWIA	distorted wave impulse approximation
DWPF	Defence Waste Processing Facility
E. coli	Escherichia coli
E/D	enhancement-/depletion-mode
E1	electric dipole
E2	electric quadrupole
E^2PROM	electrically erasable PROM
EAROM	electrically alterable ROM
EAS	extensive air shower
EAX	electronic automatic exchange
EB	exponential Born
EBBA	4-ethoxybenzylidene-4n-butylaniline
EBIC	electron beam induced current(s)
EBIS	electron beam ion source
EBIT	electron beam ion trap
EBL	explanation-based learning
EBR	experimental breeder reactor
EBT	Elmo Bumpy Torus
EBU	European Broadcasting Union
ECA	event-condition-action
ECALE	electrochemical atomic layer epitaxy
ECC	emergency core cooling *or* error correction code
ECCM	electronic counter-counter measures
ECCS	emergency core cooling system
ECELR	Epithermal Critical Experiment Laboratory Reactor
ECG	electrocardiography (-gram)
ECL	emitter coupled logic
ECM	electronic countermeasures
ECMWF	European Centre for Medium Range Weather Forecasts
ECoG	electrocortiography (-gram)
ECR	electron cyclotron resonance
ECRH	electron cyclotron resonance heating
EDA	ethylene diamine *or* electronic design automation
EDAX	energy-dispersive X-ray analysis
EDF	Electricité de France
EDFA	erbium-doped fibre amplifier
EDI	electronic data interchange
EDIF	electronic data interchange format
EDM	electrical discharge machining
EDP	electronic data processing
EDS	energy dispersive spectra (-oscopy)
EDTA	ethylene diamine tetra-acetic acid
EDTV	extended definition TV
EDW	electron density wave
EDX	energy-dispersive X-ray
EEG	electroencephalography (-gram)
EELFS	electron energy loss fine structure
EELS	electron energy loss spectra (-oscopy)
EEPLD	electrically erasable PLD
EEPROM	electrically erasable PROM
EFG	edge-defined film fed growth
EFIE	electric field integral equation
EFL	emitter-follower logic *or* emitter function logic
EFM	extended Flygare method
EFT	electronic funds transfer
EGA	Enhanced Graphics Adaptor
EGG	electrogastrography (-gram)
EHD	electrohydrodynamics
EHDTV	enhanced high-definition TV
EHF	extremely high frequency
EHP	electron-hole potential method
EHT	extended Hückel theory *or* extra high tension
EHV	extra high voltage
EIA	Electronic Industries Association
EIRP	equivalent isotropically radiated power
EIS	electrochemical impedance spectroscopy
EISA	extended Industry Standard Architecture
EKF	extended Kalman filter
EKG	electrokymography (-gram)
EL	electroluminescent(-ence)
ELDOR	electron electron double resonance
ELF	extremely low frequency
ELNES	energy loss near edge structure
ELO	epitaxial lateral overgrowth
EM	electromagnetic *or* expectation maximisation
EMC	electromagnetic compatibility *or* European Muon Collaboration
EMF	electromotive force
EMG	electromyography (-gram)
EMI	electromagnetic interference
EMP	electromagnetic pulse
EMS	energy management system
EMTP	electromagnetic transients program
ENDOR	electron nuclear double resonance
ENEL	Ente Nazionale per l'Energia Elettrica (Italian National Electric Energy Agency)
ENG	electronic news gathering
ENOB	effective number of bits
ENSO	El Nino - Southern Oscillation
EO	electro-optic(al)
EOF	end-of-file
EOG	electrooculography (-gram)
EOQ	economic order quantity
EOS	electrical overstress
EPA	Environmental Protection Agency (USA)
EPDM	ethylene propylene diene monomer
EPI	echo planar imaging
EPLD	electrically programmable logic device
EPMA	electron probe microanalysis
EPR	Einstein-Podolsky-Rosen *or* electron paramagnetic resonance *or* ethylene propylene rubber *or* European Pressurised water Reactor
EPRI	Electric Power Research Institute
EPROM	erasable PROM
EPUT	events per unit time
ER	electrorheology(-ical) *or* entity-relationship
ERBE	Earth Radiation Budget Experiment
ERDA	elastic recoil detection analysis
EREW	exclusive read, exclusive write
ERG	electroretinography (-gram)
ERP	effective radiated power
ES	expert system
ESA	European Space Agency
ESCA	electron spectroscopy for chemical analysis
ESCAR	Experimental Superconducting Accelerating Ring
ESD	electron stimulated desorption *or* electrostatic discharge
ESDIAD	electron stimulated desorption ion angular distributions

SF	engineering safety features
SM	electronic support measures
SOC	European Space Operations Centre
SP	electrostatic precipitators
SPI	electronic speckle pattern interferometry
SPRIT	estimation of signal parameters by rotational invariance techniques *or* European Strategic Programme for Research in Information Technology
SR	electron spin resonance *or* equivalent series resistance
SS	electronic switching system *or* environmental stress screening
STELLE	Extended State Transition Language
TA-II	bis(ethylenedithio)-tetrathiafulvalene
TACS	Engineering Test Accelerator-II
TM	Extended Total Access Communications System
TSI	engineering test model
TV	European Telecommunications Standards Institute
U	enhanced TV
UT	European Union
UV	equipment under test
V	extreme UV
W	electric vehicle
X-OR	electronic warfare
XAFS	exclusive OR (logic)
ZW	extended X-ray absorption fine structure
N	embedded zerotree wavelet
V	Fowler-Nordheim
AA	frequency-to-voltage
ACTS	Federal Aviation Administration
AMOS	flexible AC transmission system
BC	floating gate avalanche MOS
BG	fluidised bed combustion
BL	fibre Bragg grating
BR	fly-by-light
CAW	fast breeder reactor
CC	flux-cored arc welding
	face-centred cubic *or* Federal Communications Commission (USA)
CFS	first come first served
CI	fuel-cladding interaction
CMA	frequency comb multiple access
COB	flip chip on board
CT	field-controlled thyristor
DD	floppy disc drive *or* frequency division duplex
DDI	fibre distributed data interface
DM	frequency division multiplex(ing)
DMA	frequency division multiple access
DNC	frequency dependent negative conductance
DNR	frequency dependent negative resistance
DTD	finite difference time-domain
DTS	fixed delay tree search
EA	finite element analysis *or* field emitter array
EC	forward error correction
ECFET	floated electron channel FET
ECL	feedback ECL
ED	Fusion Engineering Device (USA) *or* field emission display
EDC	Fusion Engineering Device Centre (USA)
EL	free electron laser
FEM	field emission microscopy *or* finite element method
FER	Fusion Experimental Reactor (Japan) *or* frame error rate
FES	functional electrical stimulation
FET	field effect transistor
FFH	fast frequency hopping
FFHR	fusion-fission hybrid reactor
FFT	fast Fourier transform
FFTF	Fast Flux Test Facility
FGD	flue gas desulphurisation
FGM	functionally graded material(s)
FH-SS	frequency hopped spread spectrum
FH-SSMA	frequency hopped SSMA
FHNC	Fermi hypernetted chain
FIB	focused ion beam
FIFO	first in, first out
FIM	field ion microscopy
FIMOS	floating gate ionisation injection metal-oxide-semiconductor
FIPOS	full isolation by porous oxidised silicon
FIR	far IR *or* finite impulse response
FISH	fluorescence in-situ hybridisation
FISO	fast in, slow out
FITL	fibre in the loop
FLAIR	flow-sensitive alternating inversion recovery
FLC	ferroelectric liquid crystal
FLCD	ferroelectric liquid crystal display
FLIR	forward looking infra-red
FLL	frequency locked loop
FLOPS	floating point operation(s) per second
FLOTOX	floating-gate tunnel oxide
FM	frequency modulation
FMEA	failure mode and effects analysis
FMECA	failure modes effects and criticality analysis
FMIT	Fusion Materials Irradiation Test Facility
FMR	ferromagnetic resonance
fMRI	functional magnetic resonance imaging
FMS	flexible manufacturing system *or* flight management system
FOG	fibre optic gyroscope
FORTRAN	Formula Translation (language)
FOTS	fibre optic transmission system
FOV	field of view
FP	functional programming
FPA	focal plane array
FPAA	field programmable analogue array
FPC	fusion power core
FPD	flat panel display
FPGA	field programmbale gate array
FPLA	field programmable logic array
FPLMTS	future public land mobile telecommunication system
FPT	finite perturbation theory
FQHE	fractional quantum Hall effect
FRAM	ferroelectric random access memory
FRAP	fluorescence recovery after photobleaching
FRED-FET	fast recovery epitaxial diode FET
FRMR	field reversed mirror reactor
FROG	frequency resolved optical gating
FSDE	fission suppressed direct enrichment (breeder blanket)
FSGO	floating spherical Gaussian orbitals

FSK	frequency-shift keying
FSM	finite state machine
FSR	full scale range
FSS	fixed satellite service *or* frequency selective surface
FT	Fourier transform
FTIR	Fourier transform IR *or* frustrated total internal reflection
FTP	File Transfer Protocol
FTR	Fast Test Reactor
FTTB	fibre-to-the-building
FTTC	fibre-to-the-curb
FTTH	fibre-to-the-home
FWHM	full width half maximum
FWM	four wave mixing
FZ	floating zone
FZP	Fresnel zone plate
GA	genetic algorithm
GABA	γ-aminobutyric acid
GAMBIT	gate modulated bipolar transistor
GANIL	Grand Accelerateur National à Ions Lourds
GASH	guanidine aluminium sulphate hexahydrate
GCB	gas circuit breakers
GCC	gasification combined cycle
GCFR	gas-cooled fast breeder reactor
GCHWR	gas cooled heavy water moderated reactor
GCM	general circulation model *or* generator coordinate method
GCR	group code recording
GDR	giant dipole resonance
GDSS	group decision support system
GEO	geostationary orbit
GETR	General Electric Test Reactor
GF	Galois field
GFSK	Gaussian frequency shift keying
GHF-NO-CI	generalised Hartree-Fock/natural orbital/configuration interactions
GIAO	gauge-invariant atomic orbitals
GIC	generalised immittance convertor *or* geomagnetically induced currents *or* graphite intercalation compound
GIDL	gate-induced drain leakage
GIF	graphical image format
GIS	gas-insulated system (substation or switchgear) *or* geographic information system
GITL	gas-insulated transmission line
GKS	Graphical Kernel System
GLONASS	Global Orbiting Navigation Satellite System
GMA	gas metal arc
GMDH	group method of data handling
GMDSS	Global Maritime Distress and Safety System
GMI	giant magnetoimpedance
GMR	giant magnetoresistance *or* giant monopole resonance
GMRF	guided mode resonance filter
GMSK	Gaussian filtered MSK
GMW	Gordon-Mills-Welch
GNSS	Global Navigation Satellite System
GO	Gaussian orbitals *or* geometrical optics
GOI	gate oxide integrity
GP	Guinier-Preston
GPC	generalised predictive control
GPED	gas phase electron diffraction
GPIB	general-purpose interface bus
GPM	ground potential model
GPS	Global Positioning System
GQR	giant quadrupole resonance
GR	general relativity
GRIN	graded (*or* gradient) refractive index
GRINSCH	gradient-index separate confinement heterostructure
GSI	gigascale integration
GSM	global system for mobile communications *or* Groupe Speciale Mobile
GSMBE	gas-source molecular beam epitaxy
GSPC	gas scintillation proportional chamber (*or* counter)
GT	group technology
GTAW	gas tungsten arc welding
GTD	geometrical theory of diffraction
GTHTGR	gas turbine HTGR
GTO	gate turn-off *or* Gaussian-type orbitals
GUI	graphical user interface
GUT	grand unified theory
GVB	generalised valence bond
HALT	highly accelerated life test(ing)
HASL	hot air solder levelling
HASS	highly accelerated stress screening
HAST	highly accelerated stress test(ing)
HAWT	horizontal axis wind turbines
HB	horizontal branch
HBM	human body model
HBS	home bus system
HBT	heterojunction bipolar transistor *or* N-(p-hexyloxybenzylidene)-p-toluidene
HCDA	hypothetical core disruptive accident
HCI	human-computer interaction
HCMOS	high-speed complementary MOS
HCP	hexagonal close packed
HCSEL	horizontal cavity surface emitting laser
HD-MAC	high-definition MAC
HD-VCR	high-definition VCR
HDD	hard disc drive
HDDR	hydrogenation disproportionation desorption recombination
HDI	high-density interconnect
HDL	hardware description language
HDLC	high-level data link control
HDM	hot dark matter
HDMI	high-density multichip interconnect
HDPE	high-density polyethylene
HDSL	high bit-rate digital subscriber lines
HDTV	high-definition television
HEED	high-energy electron diffraction
HeLa	Henrietta Lacks
HEMP	high-altitude electromagnetic pulse
HEMT	high electron mobility transistor
HET	hot electron transistor
HEU	highly enriched uranium (93% U235)
HEU/Th	highly enriched U/Th fuel
HEXFET	hexagonal MOSFET
HF	Hartree-Fock *or* high-frequency
HFC	hybrid fibre coax
HFEF	Hot Fuel Examination Facility
HFET	heterojunction (*or* heterostructure) FET
HFIR	high flux isotope reactor

TR	High Field Ignition Test Reactor
	Hartree-Fock-Slater *or* hyperfine structure
MS	high-gradient magnetic separation
	heavy ion
	high-intensity discharge
ET	heterointerface FET
FET	heterostructure insulated gate FET
	hot isostatic pressing
ERLAN	high-performance (radio) LAN
PI	high-performance parallel interface
F	high-intensity radiated fields
	hospital information system
E	heavy ion induced X-ray emission
T	heterojunction bipolar transistor
ET	heterojunction FET
	High Level Architecture
	high-level language
W	high-level liquid waste
/	high-level waste
C	hidden Markov chain
D	helmet mounted display
M	hidden Markov model
D	health maintenance organisation *or* Hückel molecular orbitals
OS	high-performance metal-oxide-semiconductor
TSeF	hexamethylene-tetraselenafulvalene (-inium)
TTF	hexamethyltetrathiofulvalene (-inium)
AB	heptyloxyazoxybenzene
E	holographic optical elements
MO	highest occupied molecular orbitals
PG	highly oriented pyrolytic graphite
S	higher order statistics
CI	high-pressure coolant injection
CS	high-pressure core sprays
	High Performance FORTRAN
EELS	high-resolution EELS
EM	high-resolution electron microscopy
SG	heat recovery steam generator
TEM	high-resolution TEM
V	heart rate variability
LA	high-strength low alloy (steel)
LAN	high-speed LAN
	Hubble Space Telescope
	high tension
GR	high-temperature gas-cooled reactor
GRSC/C	HTGR steam cycle cogeneration
ML	Hypertext Markup Language
SC	high-temperature superconductor
TP	Hypertext Transfer Protocol
TR	High-Temperature Engineering Test Reactor
D	head-up display
	high voltage
AC	heating, ventilation and air conditioning *or* high-voltage alternating current
DC	high-voltage direct current
EM	high-voltage electron microscopy
IC	high-voltage integrated circuit
HR	hardware-in-the-loop
LWR	heavy water moderated LWR
HR	heavy water reactor
HZE	high Z and energy
HZP	hot zero power
IFOG	interferometric fibre-optic gyroscope
I-V	current-voltage
i.i.d.	independently identically distributed
I/O	input/output
I^2L	integrated injection logic
I^3L	isoplanar I^2L
IAEA	International Atomic Energy Agency
IAR	isobaric analogue resonance
IAS	isobaric analogue state
IBA	interacting boson approximation
IBAD	ion beam assisted deposition
IBCN	integrated broadband communication network
IBFA	interacting boson-fermion approximation
IBM	interacting boson model *or* International Business Machines
IBOC	in-band on-channel
IBPBAC	isobutyl-4-(4'-phenylbenzylidene-amino) cinnamate
IBT	insulated base transistor
IC	integrated circuit
ICA	independent component analysis
ICAM	integrated computer-assisted manufacturing
ICB	ionised cluster beam
ICDF	intermediate coupling Dirac-Fock
ICE	in-circuit emulator
ICF	inertial confinement fusion
ICMA	idle signal casting multiple access
ICP	inductively coupled plasma
ICPP	Idaho Chemical Processing Plant
ICRF	ion cyclotron range of frequencies
ICRH	ion cyclotron resonance heating
ICTS	isothermal capacitance transient spectra (-oscopy)
ICU	intensive care unit
IDDQ	quiescent power supply current
IDEF	ICAM definition
IDFL	integral diode FET logic
IDL	interface definition language
IDT	interdigital transducer
IDTV	improved definition television
IEC	interexchange carrier *or* International Electrotechnical Commission
IEE	Institution of Electrical Engineers
IEEE	Institute of Electrical and Electronics Engineers
IEPA	independent electron pair approximation
IES	Institute of Environmental Sciences
IETS	inelastic electron tunnelling spectra (-oscopy)
IF	intermediate-frequency
IFA	ionisation front accelerator
IFE	intelligent front end
IFF	identification friend or foe
IFIP	International Federation for Information Processing
IFM	instantaneous frequency measurement
IFS	iterated function system
IGBT	insulated gate bipolar transistor
IGCC	integrated gasification combined cycle
IGES	Initial Graphics Exchange Specification
IGFET	insulated gate FET
IgG	immunoglobin
IGT	insulated gate transistor
IHEP	Institute of High Energy Physics
IIR	infinite impulse response

IKBS	intelligent knowledge-based system
IKO	Institute v. Kernph Ouder (Amsterdam)
ILD	interlayer dielectric
ILP	inductive logic programming
ILS	instrument landing system
ILW	intermediate level (radioactive) waste
IM	induction motor
IM-DD	intensity modulated direct detection
IMA	integrated modular avionic
IMAPS	International Microelectronics and Packaging Society
IMD	intermodulation distortion
IMPATT	impact avalanche transit time
IN	intelligent network
INDO	incomplete neglect of differential overlap
INDOR	internuclear double resonance
INEPT	insensitive nuclei enhanced by polarisation transfer
ING	intense neutron generator
INO	iterative natural orbital
INS	inertial navigation system *or* Information Network System
INSPEC	Information Services for the Physics and Engineering Communities
INTELSAT	International Telecommunications Satellite Consortium
INTOR	International Tokamak Reactor
INTUG	International Trade and User Group
IOCω	inclusion of the overlap charges in the omega
IP	Internet Protocol
IPC	Institute for Interconnecting and Packaging Electronic Circuits
IPI	intelligent peripheral interface
IPSE	integrated programming support environment *or* integrated project support environment
IPSS	international packet switching system
IQHE	integer quantum Hall effect
IR	infra-red
IRBIC	IR beam-induced current(s) (*or* contrast)
IREB	intense relativistic electron beam
IRED	IR emitting diode
IRFPA	IR focal plane array
IRL	Internet reconfigurable logic
IRQ	interrupt request
IRRAS	IR reflection absorption spectra(-oscopy)
IRS	information retrieval system *or* Internal Revenue Service
IRST	IR search and track
IS	information system
ISA	Industry Standard Architecture *or* Instrument Society of America
ISAR	inverse synthetic aperture radar
ISDN	integrated services digital network
ISDSN	integrated services digital satellite network
ISFET	ion-sensitive FET
ISHM	International Society for Hybrid Microelectronics
ISI	intersymbol interference
ISL	integrated Schottky logic *or* inter-satellite link
ISM	industrial, scientific and medical
ISM	interstellar medium
ISO	independent system operator(s) *or* International Standards Organization
ISP	Internet service provider
ISPBX	integrated services PBX
ISR	intersecting storage ring
ISS	ion scattering spectroscopy
ISX	impurity study experiment
IT	information technology
ITC	ionic thermocurrents
ITEP	Institute of Theoretical and Experimental Physics
ITO	indium tin oxide
ITOX	internal thermal oxidation
ITR	Ignition Test Reactor
ITU	International Telecommunication Union
IU	Indiana University (USA)
IVHS	intelligent vehicle highway system
IVO	improved virtual orbitals
IVP	initial value problem
J^{π}	spin/parity (nuclear levels)
JAERI	Japan Atomic Energy Research Institute
JANET	Joint Academic Network
JCL	job control language
JDK	Java Development Kit
JEDEC	Joint Electronic Device Engineering Council
JET	Joint European Torus
JFET	junction FET
JINR	Joint Institute for Nuclear Research
JIT	just in time
JPEG	Joint Photographic Experts Group
JSD	Jackson system development
JT-60	Japanese Tokamak-60
JTAG	Joint Test Action Group
JTC	joint transform correlator
JTE	junction termination extension
JTIDS	Joint Tactical Information Distribution System
JVD	jet vapour deposition
KADS	knowledge acquisition and design structuring
KBS	knowledge-based system
KDD	knowledge discovery in databases
KdV	Korteweg-de Vries
KEK	Japan National Laboratory for High Energy Physics
KGD	known good die
KKR	Korringa-Kohn-Rostoker
LAAS	local-area augmentation system
LAMPF	Los Alamos Meson Physics Facility
LAN	local-area network
LATA	local access and transport area
LAWN	local-area wireless network
LB	Langmuir-Blodgett
LBIC	light beam induced current(s)
LBLOCA	large break LOCA
LC	inductance-capacitance
LCA	logic cell array
LCAO	linear combination of atomic orbitals
LCBO	linear combinations of (semi-localised) band orbitals
LCC	leadless chip carrier
LCCC	leadless ceramic chip carrier
LCD	liquid crystal display/device
LCI	load commutated inverter
LCP	Large Coil Program *or* least cost planning
LCTF	Large Coil Test Facility
LCTV	liquid crystal television

laser diode
laser Doppler anemometry (-meter) *or* local density approximation
lightly doped drain
lossless discrete integrator
lateral double-diffused metal oxide semiconductor
low density polyethylene
laser Doppler velocimetry (-meter)
Low Energy Antiproton Ring
liquid encapsulated Czochralski *or* local exchange carrier
light emitting diode
low energy electron diffraction
Large Experimental Fusion Device
low energy ion scattering
lightning electromagnetic pulse
lateral epitaxial overgrowth *or* low-Earth orbit
Large Electron Positron (CERN)
linear energy transfer
low enrichment uranium (10% U235)
low enrichment U/Th fuel
low-frequency
linear feedback shift register
land grid array
Large Hadron Collider (CERN)
laser heated pedestal growth
lower hybrid resonance heating
laser induced fluorescence
last in, first out
lithography galvanoformung abformung
linear induction motor
laser induced magnetically enhanced
linear accelerator
laboratory (*or* library) information system
List Processor (language)
Large Leak Test Rig
low level (radioactive) waste
Large Magellanic Cloud
local multichannel (*or* multipoint) distribution system
liquid metal embrittlement
liquid metal fast breeder reactor
linear matrix inequalities
liquid metal ion source
liquid metal reactor *or* land mobile radio
least mean square(s) *or* land mobile satellite
land mobile satellite system
linear combination of muffin tin orbitals
low-mass X-ray binary
low noise amplifier
low noise block
liquified natural gas
local oscillator *or* longitudinal optical
loss of coolant accident
loss of coolant experiment
local oxidation of silicon
loss of flow
Loss of Flow Test Facility
loss of feedwater
loss of load probability
loss of on-site power
line of sight *or* loss of signal

LOTOS Language Of Temporal Ordering Specification
LP linear programming
LPC linear predictive coding
LPCS low pressure core spray
LPCVD low pressure CVD
LPE liquid phase epitaxy
LPEE liquid phase electroepitaxy
LPFL low pinchoff-voltage FET logic
LPI low probability of intercept *or* liquid photoimageable
LQ linear quadratic
LQG linear quadratic Gaussian
LRO long-range order
LSA least squares approximation *or* limited space charge accumulation
LSB least significant bit
LSD local spin density *or* loop shut-down
LSF line spectral frequency
LSI large-scale integration
LSP line spectrum pair
LSPB Large Scale Prototype Breeder
LSSD level sensitive scan design
LSTF Large Scale Test Facility
LTCC low-temperature co-fired ceramic
LTE local thermodynamic equilibrium
LTI linear time invariant
LTR loop transfer recovery
LUMO lowest unoccupied molecular orbitals
LV low voltage *or* left ventricle
LVQ learning vector quantisation
LW long-wave
LWBR light water breeder reactor
LWHCR light water high convertor reactor
LWIR long-wavelength IR
LWR light water reactor
M-QAM multilevel QAM
M1 magnetic dipole
M2 magnetic quadrupole
MAC multiplexed analogue components *or* media access control
MAG metal arc gas
MAGFET magnetic field sensitive FET
MAGLEV magnetic levitation
MAI multiple access interference
MAN metropolitan-area network
MAP Manufacturing Automation Protocol *or* maximum a posteriori *or* medium access protocol
MARC machine readable catalogue
MARS Mirror Advanced Reactor Study
MAS magic angle spinning
MATE modular automatic test equipment
MBBA 4-methoxybenzylidene-4'n-butylaniline
MBC meteor burst communication
MBE molecular beam epitaxy *or* multi-band excitation
MBPT many body perturbation theory
MBR model-based reasoning
MCA multichannel analyser
MCCB moulded-case circuit breakers
MCCI molten core-concrete interaction
MCD magnetic circular dichroism
MCFC molten carbonate fuel cell
MCFR magnetic confinement fusion reactor

MCM	multichip module *or* multicarrier modulation
MCP	microchannel plate
MCSCF	multiconfiguration SCF
MCVD	modified chemical vapour deposition
MCXα	multiconfiguration Xα
MDS	maximum distance separable
MEC	molecular electron correlation(s)
MEG	magnetoencephalography (-gram)
MEI	measured equation of invariance
MELP	mixed excitation linear prediction
MEMS	microelectromechanical system
MERIE	magnetically enhanced reactive ion etching
MESFET	metal-semiconductor FET
MEU	medium enrichment uranium (20% U235)
MEU/Th	medium enrichment U/Th fuel
MF	medium-frequency
MFIE	magnetic field integral equation
MFM	magnetic force microscopy
MFP	mean free path
MFQ	maximally flat quadratic
MFR	mirror fusion reactor
MFSFET	metal-ferroelectric-semiconductor FET
MFSK	multiple frequency shift keying
MFTF	Mirror Fusion Test Facility
MHD	magnetohydrodynamics
MHEG	Multimedia and Hypermedia Experts Group
MHS	message handling system
MHTGR	modular HTGR
MIC	microwave integrated circuit
MID	magnetically insulated diode *or* moulded interconnect device
MIDI	musical instrument digital interface
MIDP	microwave induced delayed phosphorescence
MIG	metal inert gas *or* metal-in-gap
MIL-STD	military standard
MIM	metal-insulator-metal
MIMD	multiple input (instruction), multiple data
MIMIC	millimetre-wave monolithic integrated circuit
MIMO	multiple input, multiple output
MIN	multiprocessor interconnection network
MIND	mass impregnated non-draining
MINDO	modified incomplete NDO
MIPS	million instructions per second
MIS	management information system *or* metal-insulator-semiconductor
MISFET	metal-insulator-semiconductor FET
MISO	multiple input, single output
MIT	Massachusetts Institute of Technology (USA)
MITATT	mixed tunnelling avalanche transit time
ML	Martin-Löf
ML-EM	maximum likelihood expectation maximization
MLB	multilayer board
MLC	multilayer ceramic
MLE	maximum likelihood estimation *or* molecular layer epitaxy
MLP	multilayer perceptron
MLS	microwave landing system *or* multi-level secure
MLSE	maximum likelihood sequence estimation
MLTF	multilayer thick film
MLW	medium level (radioactive) waste
MM	millimetre
MMC	metal-matrix composite
MMDS	microwave (*or* multichannel) multipoint distribution system
MMF	magnetomotive force *or* multimode fibre
MMI	man-machine interface
MMIC	monolithic microwave integrated circuit
MMSE	minimum mean squared error
MMU	memory management units
MNDO	modified neglect of differential overlap
MNOS	metal-nitride-oxide-semiconductor
MO	molecular orbitals
MOBILE	monostable-bistable transition logic element
MOCLD	metal-organic chemical liquid deposition
MOCVD	metal-organic chemical vapour deposition
MODFET	modulation doped FET
MODOR	microwave-optical double resonance
MODPOT	modulator potential
MOKE	magneto-optical Kerr effect
MOMBE	metal-organic MBE
MONOS	metal-oxide-nitride-oxide-semiconductor
MOPA	master oscillator power amplifier
MORB	mid-ocean ridge basalt
MOS	mean opinion score *or* metal-oxide-semiconductor
MOSFET	metal-oxide-semiconductor FET
MOSIS	metal oxide semiconductor implementation service
MOST	metal-oxide-semiconductor transistor
MOV	metal oxide varistor
MOVPE	metal-organic vapour phase epitaxy
MOX	mixed oxide fuel
MP-CELP	multi-pulse CELP
MPEG	Moving Picture Experts Group
MPH	moving plasmoid heater
MPI	Message Passing Interface
MPP	massively parallel processing
MPPT	maximum power point tracking
MPSK	multiple phase shift keying
MPU	microprocessing unit
MQORC	modified quadrature overlapped raised cosine
MQW	multiple quantum well
MR	magnetoresistive
MRAC	model reference adaptive control
MRC	minimum resolvable contrast
MRD	multiple-reference double excitation
MRI	magnetic resonance imaging
MRINDO	modified Rydberg INDO
MRP	manufacturing resources planning *or* materials requirements planning
MRS	monitored retrievable storage (radioactive waste) *or* magnetic resonance spectroscopy
MRT	minimum resolvable temperature
MS	management science
MSB	most significant bit
MSE	mean square error
MSELP	mixed sinusoidally excited linear prediction
MSGD	micro-strip gas detector
MSI	medium scale integration
MSK	minimum shift keying
MSM	metal-semiconductor-metal

R	molten salt reactor
S	mobile satellite system
SM	minimal supersymmetric standard model
SW	magnetostatic surface wave
U	Michigan State University
W	magnetostatic waves
Xα	multiple scattering Xα
	machine translation *or* magnetotelluric
BF	mean time between failures
F	modulation transfer function
	moving target indicator
L	merged-transistor logic
R	maximum transition run-length
TF	mean time to failure
TR	mean time to repair
Xα	muffin-tin Xα
AS	micro total analysis system
F	muon-catalysed fusion
	microprocessor
R	muon spin rotation (resonance)
F	material unaccounted for *or* maximum usable frequency
MPS	Multi-User Multi-Programming System
SE	multiple sub-Nyquist sampling encoding
SIC	multiple signal characterisation
X	multiplexer(-ing)
	medium voltage
DR	minimum variance distortionless response
DS	multipoint video distribution system
TL	modified variable threshold logic
/IR	mid-wavelength IR
/NT	multi-wall(ed) nanotube
/PC	multiwire proportional chamber
	numerical aperture
A	neutron activation analysis
L	National Accelerator Laboratory
ND	NOT-AND (logic)
PLPS	North American Presentation Level Protocol Syntax
SA	National Aeronautics and Space Administration
SICON	sodium zirconium silicate phosphate
TO	North Atlantic Treaty Organisation
/STAR	Navigational Satellite Timing and Ranging
ETF	Neutral Beam Engineering Test Facility
FM	narrowband frequency modulation
	narrow band interference *or* neutral beam injection
PS	neutral beam power systems
	numerical control
AR	National Center for Atmospheric Research (USA)
BR	nitrine cooled breeder reactor
MET	non-closed shell many electron theory
SL	National Conference of Standards Laboratories
C	negative differential conductance (-ivity)
DO	neglect of diatomic differential overlap
E	nondestructive evaluation
O	neglect of differential overlap
R	negative differential resistance
RO	nondestructive readout
SF	non-dispersion-shifted fibre
T	nondestructive testing
A	negative electron affinity
C	National Electric Code
NEMA	National Electrical Manufacturers Association
NET	Next European Tokamak
NETD	noise equivalent temperature differential
NEXAFS	near-edge X-ray absorption fine structure
NEXT	near-end crosstalk
NGS	nuclear generating station
NHS	National Health Service (UK)
NIC	negative impedance convertor
NICAM	near-instantaneously companded audio multiplex
NIR	near IR
NIST	National Institute of Standards and Technology (USA)
NLC	nematic liquid crystal
NLDC	nonlinear directional coupler
NLMS	normalised least mean square(s)
NLO	next-to-leading order *or* nonlinear optical
NLP	natural language processing
NLTE	non-local thermodynamic equilibrium
NMOS	n-channel MOS
NMR	nuclear magnetic resonance
NMR-ON	NMR on oriented nuclei
NMRR	normal-mode rejection ratio
NMS	network management system
NNI	network node interface
NNNDO	neglect of non-neighbour differential overlap
NOAA	National Oceanic and Atmospheric Administration (USA)
NOFC	New Oxide Fuels Complex (BNFL)
NOR	NOT-OR (logic)
NOVA	nonoverlapping super-self-aligned
NOW	network of workstations
NP	nondeterministic polynomial
NPL	National Physical Laboratory (UK)
NPP	nuclear power plant
NQR	nuclear quadrupole resonance
NRC	Nuclear Regulatory Commission (USA)
NRD	nonradiative dielectric
NRM	natural remanent magnetisation
NRZ	non-return to zero
NRZI	NRZ inverted
NS	Navier-Stokes
NSLS	National Synchrotron Light Source
NSOM	near-field scanning optical microscopy
NSPUDT	natural single phase unidirectional transducer
NSRR	Nuclear Safety Research Reactor
NSSS	nuclear steam supply system
NTC	negative temperature coefficient
NTD	neutron transmutation doping
NTE	network termination equipment
NTL	nonthreshold logic
NTSC	National Television Standards Committee *or* National Television Systems Committee
NTT	Nippon Telegraph and Telephone
NTU	network termination unit
NURBS	non-uniform rational B-spline
NVG	night vision goggles
NVL	night vision laboratory
NVLAP	National Voluntary Laboratory Accreditation Program
NVM	nonvolatile memory
NVRAM	nonvolatile RAM

NWA network analyser
NWPA Nuclear Waste Policy Act (USA)
OA office automation
OAM&P operations, administration, maintenance and provisioning
OAM operations, administration and maintenance
OATS open area test site
OBDD ordered binary decision diagram
OBIC optical beam induced current(s)
OBIRCH optical beam induced resistance change
OCR optical character recognition
OCRWM Office of Civilian Radioactive Waste Management (USA)
OCT optical coherence tomography
ODA Office Document Architecture
ODE ordinary differential equation
ODF orientation distribution function
ODMG Object Data Management Group
ODMR optical detection of magnetic resonance
ODP open distributed processing
OEIC optoelectronic integrated circuit
OEM original equipment manufacture(r)
OER oxygen enhancement ratio
OFDCS optical fibre digital communication system
OFDM orthogonal FDM
OH ohmic heating
OHTE Ohmically Heated Toroidal Experiment
OIM orientation imaging microscopy
OISF oxidation induced stacking fault
OLAP online analysis and processing
OLCR optical low coherence reflectometer(-try)
OLE object linking and embedding
OLED organic light emitting device (*or* diode *or* display)
OLTP online transaction processing
OMCVD organometallic CVD
OME oxide-mediated epitaxy
OMI optical mode interference
OMT object modelling technique
OMVPE organometallic vapour phase epitaxy
ONA open network architecture
ONO oxide-nitride-oxide
OO object-oriented
OOP object-oriented programming
OPA optical parametric amplifier
OPAC online public access catalogue
OPC object linking for process control
OPF optimal power flow
OPGW optical fibre composite ground wire
OPHF orbital polarised Hartree-Fock
OPO optical parametric oscillator
OPW orthogonal plane wave
OQPSK offset quadrature phase shift keying
OR operations research
ORB object request broker
ORELA Oak Ridge Electron Linear Accelerator (USA)
ORNL Oak Ridge National Laboratory (USA)
OS operating system
OS-EM ordered subset expectation maximization
OSE open system environment
OSI Open Systems Interconnection
OSP organic solderability preservative
OSS operations support system
OTA operational transconductance amplifier
OTDR optical time domain reflectometry
OTEC ocean thermal energy conversion
OTF optical transfer function
OTH over the horizon
OTS Orbital Test Satellite
OTSG once-through steam generator
OZL Okubo-Zweig-Lizuha (quark model)
PAA paraazoxyanisole
PABX private automatic branch exchange
PAC perturbed angular correlation *or* probably approximately correct
PACS picture archiving and communication system *or* personal access communication system
PAE power-added efficiency
PAFC phosphoric acid fuel cells
PAG photo-acid generator
PAH polycyclic aromatic hydrocarbon(s)
PAHR post-accident heat removal
PAL phase alternate line *or* programmable array logic
PAM programmable active memory *or* pulse amplitude modulation
PANDA polarisation maintaining and absorption reducing
PANI polyaniline
PAP paraazoxyphenetole
PARS private advanced radio service
PBF power bursts facility
PBFA Particle Beam Fusion Accelerator
PBGA plastic ball grid array
PBH planar buried heterostructure
PBL planetary boundary layer
PBR pebble bed reactor
PBT permeable base transistor
PBW power-by-wire
PBX private branch exchange
PC personal computer *or* printed circuit *or* programmable controller
PCA principal component analysis
PCAC partially conserved axial currents
PCB polychlorinated biphenyl *or* printed circuit board
PCES phase change energy storage
PCI pellet-cladding interaction *or* Peripheral Component Interconnect
PCILO perturbative configuration interaction using localised orbitals
PCILOCC PCILO for crystal calculation
PCM phase change material *or* pulse code modulation
PCMCIA Personal Computer Memory Card International Association
PCN personal communications network
PCR polymerase chain reaction *or* principal component regression
PCRV prestressed concrete reactor vessel
PCS personal communication services (systems)
PCTE Portable Common Tools Environment
PCV primary containment vessel
PCX plasma confinement experiment
PD partial discharge
PDB planar doped barrier
PDE partial differential equation
PDEF physical design exchange format

F — portable document format *or* probability density (*or* distribution) function
H — plesiochronous digital hierarchy
LC — polymer dispersed liquid crystal
P — plasma display panel
PA — phase Doppler particle analyser
T — photodynamic therapy
X — Poloidal Divertor Experiment
— phase encoded
C — photoelectrochemical cell
CVD — plasma enhanced CVD
EK — polyaryletheretherketone *or* polyetheretherketone
EL — programmable electrically erasable logic
FC — polymer electrolyte fuel cell
M — photo-electromagnetic *or* privacy-enhanced mail *or* proton exchange membrane
P — Positron Electron Photon (collider, Stanford, USA)
S — photoelectron spectra (-oscopy)
T — polyethylene terephthalate *or* positron emission tomography
TRA — Positron Electron Tandem Ringbeschleuniger Anlage
— poloidal field *or* power factor
BC — pressurised fluidised bed combustion
C — perfluorocarbon *or* power factor correction
G — pulsed field gradient
M — pulse frequency modulation
P — power factor pre-regulator
R — Prototype Fast Reactor
A — pin grid array *or* programmable gate array
HEMT — pseudomorphic high electron mobility transistor
HIGS — Programmer's Hierarchical Interactive Graphic System
HS — personal handy-phone system
HWR — pressurised heavy water reactor
C — particle-in-cell
CTS — photo-induced current transient spectra (-oscopy)
D — proportional + integral + differential (*or* derivative)
I — plasma immersion ion implantation
N — p-type intrinsic n-type
PECO — photoion photoelectron coincidence
US — process inherent ultimately safe
XE — particle (*or* proton) induced X-ray emission
— photoluminescence
LA — phase-locked array *or* programmable logic array
LBR — Prototype Large Breeder Reactor
LC — programmable logic control(ler)
LCC — plastic leadless chip carrier
LD — programmable logic device *or* pulsed laser deposition
LEX — plant life extension
LL — phase locked loop
LT — Princeton Large Torus
LZT — lead lanthanum zirconate titanate
M — permanent magnet *or* phase modulation *or* pulse modulation
MAD — power management and distribution
MDR — phosphorescence microwave double resonance

PMF — polarisation maintaining fibre
PML — perfectly matched layer
PMMA — polymethylmethacrylate
PMOS — p-channel metal-oxide-semiconductor
PMR — private mobile radio *or* proton magnetic resonance
PMS — pre-main sequence
PMSM — permanent magnet synchronous motor
PN — planetary nebula(e) *or* pseudonoise
PNDO — partial neglect of differential overlap
PNNI — private network-network interface
PNO-CI — pair natural orbital configuration interaction
PNS — Pulsed Neutron Source
PO — physical optics
POCS — projection on to convex sets
POL — pair orthogonalised Lowdin
PON — passive optical network
POP — point of presence
POPAE — protons on protons and electrons
POPOP — phenyl-oxazolyl-phenyl-oxazolyl-phenyl
PORV — power operated relief valve
POS — point of sale
POTS — plain old telephone service
PPB — parts per billion
PPC — persistent photoconductivity
PPDP/S — Pariser-Parr-Del Bene-Pople/Segal calculations
PPI — plan position indicator
PPM — parts per million *or* pulse position modulation
PPP — Pariser-Parr-Pople
PQFP — plastic quad-flat-pack
PRA — probabilistic risk assessment
PRAM — parallel random access machine
PRDDO — partial retention of diatomic differential overlap
PREPP — Process Experimental Pilot Plant
PREVAIL — projection reduction exposure with variable-axis immersion lenses
PRF — pulse recurrence (repetition) frequency
PRIME — positive resist images by dry etching
PRMA — packet reservation multiple access
PRML — partial response maximum likelihood
PRN — packet radio networks
PROLOG — Programming in Logic (language)
PROM — Pockels readout optical modulator *or* programmable ROM
PS — proton synchrotron (CERN)
PSA — probabilistic safety assessment
PSD — power shut-down *or* power spectral density
PSDN — packet switched data network
PSG — phosphosilicate glass
PSI — phase-shifting interferometry
PSK — phase shift keying
PSNR — peak signal-to-noise ratio
PSS — packet switching service *or* power system stabiliser
PSTN — public switched telephone network
PSU — power supply unit
PTC — positive temperature coefficient
PTD — physical theory of diffraction
PTF — polymer thick film
PTFE — polytetrafluoroethylene
PTH — plated through hole
PTM — pulse time modulation

PTT	Posts, Telephones and Telegraphs
PV	photovoltaic
PVA	polyvinyl alcohol
PVC	polyvinyl chloride
PVD	physical vapour deposition
PVDF	polyvinylidene fluoride
PVER	pattern visual evoked response
PVM	Parallel Virtual Machine
PWA	partial wave analysis *or* printed wiring assembly
PWB	printed wiring board
PWBA	plane wave Born approximation
PWIA	plane wave impulse approximation
PWM	pulse width modulation
PWR	pressurised water reactor
PXI	PCI extensions for instrumentation
PZT	lead zirconate titanate
QA	quality assurance
QAM	quadrature amplitude modulation
QASK	quadrature amplitude shift keying
QBO	quasi-biennial oscillation
QC	quality control
QCD	quantum chromodynamics
QCM	quartz crystal microbalance
QCPM	quadrature continuous phase modulation
QCSE	quantum confined Stark effect
QD	quantum dot
QDMBPT	quasi-degenerate MBPT
QED	quantum electrodynamics
QFP	quad-flat-pack *or* quantum flux parametron
QFSK	quadrature frequency shift keying
QFT	quantum field theory
QGP	quark-gluon plasma
QHD	quantum hadrodynamics
QHE	quantum Hall effect
QMD	quantum molecular dynamics
QMF	quadrature mirror filter
QML	qualified manufacturers list
QORC	quadrature overlapped raised cosine
QoS	quality of service
QOSRC	quadrature overlapped squared raised cosine
QPL	qualified parts (or products) list
QPM	quark-parton model
QPO	quasi-periodic oscillation
QPR	quadrature partial response
QPRS	quadrature partial response signalling
QPSK	quaternary phase shift keying
QRC	quasi-resonant converter
QSO	quasi-stellar object (quasar)
QTAG	Quality Test Action Group
QW	quantum well
QWH	quantum well heterostructure
QWIP	quantum well IR photodetector
QWITT	quantum well injection transit time
R&D	research and development
RACE	Research and Development in Advanced Communications Technologies in Europe
RAD	ribbon-against-drop
RAID	redundant arrays of inexpensive disks
RAM	radar absorbing material *or* random access memory *or* reliability, availability and maintainability
RAMDAC	random access memory digital/analogue convertor
RAN	radio-area network
RARE	rapid acquisition with relaxation enhancement
RBE	relative biological effectiveness
RBF	radial basis function
RBMK	light water cooled, graphite moderated reactor
RBOC	Regional Bell Operating Company
RBS	Rutherford backscattering
RBSOA	reverse biased safe operating area
RC	resistance-capacitance
RCCB	residual current circuit breaker
RCD	residual current device
RCIC	reactor core isolation cooling
RCS	radar cross-section *or* rapid cycling synchrotron *or* reactor coolant systems
RCTL	resistor-capacitor-transistor logic
RDBMS	relational DBMS
RDS	Radio Data System
RDSS	radio determination satellite service
REA	rod ejection accident
REE	rare earth element(s)
REELS	reflection electron energy loss spectra (-oscopy)
RELP	residual excited linear prediction
REM	reflection electron microscopy *or* rare earth metal(s) *or* rapid eye movement
REMPI	resonance enhanced multiphoton ionisation
RESURF	reduced surface field
RF	radiofrequency
RFI	RF interference
RFIC	RF integrated circuit
RFP	reversed field pinch *or* request for proposals
RFPR	reversed field pinch reactor
RFX	reversed field (pinch) experiment
RG	renormalisation group
RGA	residual gas analyser
RGB	red, green, blue
RGM	resonating group method
RHEED	reflection high-energy electron diffraction
RHET	resonant hot electron transistor
RHF	restricted Hartree-Fock
RHIC	relativistic heavy ion collider
RIA	reactivity initiated accident
RIB	radioactive ion beam
RIBE	reactive ion beam etching
RICH	ring imaging Cherenkov detector
RIE	reactive ion etching
RINDO	Rydberg incomplete NDO
RISC	reduced instruction set computer (-ing)
RKKY	Rudermann-Kittel-Kasuya-Yosida
RLC	resistance-inductance-capacitance
RLL	run-length limited
RLS	recursive least squares
RLSA	radial line slot antenna
RMS	root-mean-square
RNA	ribonucleic acid
RNS	residue number system
ROC	receiver operating characteristic
ROM	read-only memory
ROV	remotely operated vehicle
ROXNOX	reoxidised nitrided oxide
RPA	random phase approximation
RPAE	RPA with exchange

PC	resistive plate chamber/counter *or* remote procedure call
PM	relaxation potential model *or* revolutions per minute
PV	reactor pressure vessel *or* remote piloted vehicle
S	Reed-Solomon
SA	reverse saturable absorber *or* Rivest-Shamir-Adleman
SCE	reverse short channel effect
SF	response surface function
SFQ	rapid single flux quantum
T	room temperature
TA	rapid thermal annealing
TCVD	rapid thermal CVD
TD	resonant tunnelling diode
TG	radioisotope thermoelectric generators
TI	road traffic informatics
TL	resistor-transistor logic *or* register transfer level
TN	rapid thermal nitridation
TO	rapid thermal oxidation
TP	rapid thermal processing
TT	resonant tunnelling transistor
TTY	radio teletypewriter *or* remote teletype terminal
TV	room temperature vulcanizing
VB	resonating valence bond
WG	Rao-Wilton-Glisson
/H	sample and hold
/N	signal-to-noise
AA	Systems Application Architecture
AED	selected area electron diffraction
AG	self-aligned gate
AINT	self-aligned implantation for N^+-layer technology
AIR	synthetic aperture interferometric radar
AM	scanning acoustic (*or* Auger) microscopy *or* self-assembled monolayer *or* serial access memory
AMO	simulated ab initio molecular orbitals
AMOS	stacked gate avalanche injection metal-oxide-semiconductor
AMPLE	simulation and modelling of profile in lithography and etching
AN	small-area network
ANS	small-angle neutron scattering
AR	synthetic aperture radar *or* specific absorption rate
ARSAT	search and rescue satellite aided tracking
AW	surface acoustic waves *or* self-avoiding walk
AXS	small-angle X-ray scattering
BE	super birefringence effect
BH	strip buried heterostructure
BLOCA	small-break LOCA
BS	stimulated Brillouin scattering
C	switched capacitor
CADA	supervisory control and data acquisition
CALPEL	scattering with angular limitation projection electron beam lithography
CARA	selective compliance assembly robot arm
CC	stress corrosion cracking
CDMA	synchronous code division multiple access
CE	service creation environment
CF	self-consistent field
SCFL	source-coupled FET logic
SCH	separate confinement heterostructure
SCI	scalable coherent interface
SCID	severe combined immunodeficiency
SCL	space charge limited
SCM	scanning capacitance microscopy *or* subcarrier multiplex(ing)
SCP	service control point
SCPC	single channel per carrier
SCPI	small-computer programmable instrument *or* standard commands for programmable instruments
SCR	silicon-controlled rectifier
SCSI	Small Computer System Interface
SCTF	Slab Core Test Facility
SDB	silicon direct bonding
SDF	synthetic discriminant function
SDFL	Schottky-diode FET logic
SdH	Shubnikov-de Haas
SDH	synchronous digital hierarchy
SDI	selective dissemination of information *or* Strategic Defense Initiative (USA)
SDK	software development kit
SDL	Specification and Description Language
SDLC	synchronous data link control
SDM	space division multiplexing
SDMA	space division multiple access
SDW	spin density wave
SEAM	scanning electron acoustic microscopy
SECAM	sequential colour and memory
SED	stochastic electrodynamics
SEE	single event effect(s)
SEED	self-electrooptic effect device
SEG	selective epitaxial growth
SEI	Software Engineering Institute
SEIG	self-excited induction generator
SEL	surface emitting laser
SEM	scanning electron microscopy
SEMI	Semiconductor Equipment and Material International Association
SEP	somatosensory evoked potential
SERC	Science and Engineering Research Council
SERS	surface enhanced Raman scattering
SETI	search for extraterrestrial intelligence
SEU	single event upset
SEXAFS	surface extended X-ray absorption fine structure
SFE	solar-flare effect
SFG	sum frequency generation
SFL	substrate-fed logic
SFM	scanning force microscopy
SFUR	self-filtering unstable resonator
SGEMP	system generated electromagnetic pulse
SGHWR	steam generating heavy water reactor
SGML	Standard Generalized Markup Language
SGMP	sol-gel microsphere pelletisation
SHF	super-high-frequency
SHG	second harmonic generation
SHOOT	superfluid helium on-orbit transfer
SHR	self-healing rings *or* South Hall Ring (MIT-Bates)
SHS	self-propagating high-temperature synthesis
SHV	super-high votage

SI	semi-insulating *or* Système International
SICOS	sidewall base contact structure
SID	Society for Information Display
SIF	stress intensity factor
SIL	single-in-line *or* solid immersion lens
SIMD	single instruction, multiple data
SIMOS	stacked-gate injection MOS
SIMOX	separation by implantation of oxygen
SIMS	secondary ion mass spectra (-oscopy)
SIN	Swiss Institute of Nuclear Research
SINDO	scaled incomplete NDO
SINR	signal-to-interference-plus-noise ratio
SIPOS	semi-insulating polycrystalline silicon
SIR	safe integral reactor *or* signal-to-interference ratio
SIS	semiconductor-insulator-semiconductor *or* superconductor-insulator-superconductor
SISAM	spectrometer with interference-selective amplitude modulation
SISFET	semiconductor-insulator-semiconductor FET
SISO	single input, single output
SIT	static induction transistor
SLA	semiconductor laser amplifier
SLAC	Stanford Linear Accelerator
SLALOM	semiconductor laser amplifier in a loop mirror
SLAM	scanning laser acoustic microscopy
SLC	smectic liquid crystal *or* Stanford Linear Collider *or* subscriber loop carrier
SLD	strict logical determinacy
SLIA	Spiral Line Induction Accelerator
SLIC	subscriber line interface circuit
SLM	spatial light modulator
SLS	strained-layer superlattice
SLSF	Sodium Loop Safety Facility
SMA	surface mount(ed) assembly *or* shape memory alloy
SMATV	satellite master antenna television
SMC	Small Magellanic Cloud *or* surface mount(ed) component
SMD	surface mount(ed) device
SMDS	switched multimegabit data service
SME	shape memory effect *or* small and medium-sized enterprises
SMES	superconductive magnetic energy storage
SMF	single mode fibre
SMIF	standard mechanical interface
SMOBC	solder mask over bare copper
SMOKE	surface magneto-optic(al) Kerr effect
SMPS	switched mode power supply
SMQORC	staggered modified quadrature overlapped raised cosine
SMSR	side mode suppression ratio
SMT	surface mount(ed) technology
SN	supernova(e)
SNA	Systems Network Architecture
SNM	special nuclear material
SNMP	simple network management protocol
SNOM	scanning near-field optical microscopy
SNR	signal-to-noise ratio *or* supernova remnant
SNS	spallation neutron source *or* superconducting-normal-superconducting
SOA	safe operating area *or* semiconductor optical amplifier
SoC	system on chip
SOFC	solid oxide fuel cells
SOG	spin on glass *or* strongly orthogonal geminal *or* sea of gates
SOHO	small office/home office
SOI	silicon on insulator *or* signal of interest
SOIC	small outline integrated circuit
SOL	scrape-off layers
SONET	synchronous optical network
SOP	small outline package *or* state of polarisation
SOPPA	second-order polarisation propagator approximation
SOR	successive over-relaxation *or* synchrotron orbital radiation
SOS	silicon on sapphire
SOT	small outline transistor
SPA	separated pair approximation
SPARC	scalable processor architecture *or* Standards Planning and Requirements Committee (of ANSI)
SPC	statistical process control *or* stored program control
SPCP	single parity check product (code)
SPDT	single-point diamond turning *or* single pole, double throw
SPE	solid phase epitaxy
SPEAR	Stanford Positron Electron Asymmetric Ring
SPECT	single photon emission computerised tomography
SPICE	Simulation Program with Integrated Circuit Emphasis
SPIHT	set partitioning in hierarchical trees
SPLEED	spin polarised low energy electron diffraction
SPM	scanning probe microscopy
SPN	stochastic Petri net
SPRITE	signal processing in the element
SPS	Super Proton Synchrotron (CERN)
SPST	single pole single throw
SPUDT	single-phase unidirectional transducer
SPV	surface photovoltage
SQAM	superposed QAM
SQC	statistical quality control
SQL	Structured Query Language
SQPR	staggered quadrature partial response
SQPSK	staggered quadrature PSK
SQS	self-quenching streamer chamber
SQUID	superconducting quantum interference device
SQW	single quantum well
SR	synchrotron radiation
SRAM	static RAM
SREMP	source region electromagnetic pulse
SRM	switched reluctance motors
SRMCASE	symmetry-restricted-multiconfiguration annihilation of single excitations
SRO	short-range order
SRS	stimulated Raman scattering
SRV	safety release valve
SS	spread spectrum
SS-TDMA	satellite-switched TDMA
SS7	Signalling System No.7

SB	single sideband
SBW	surface skimming bulk wave
SC	sudden storm commencement *or* Superconducting Super Collider
SCR	spectrum shift controlled reactor
SFL	Schottky-barrier coupled Schottky-barrier gate FET logic
SFLC	surface stabilised ferroelectric liquid crystal
SI	small-scale integration
SMA	spread spectrum multiple access
SNTD	solid-state nuclear track detector
SR	subsynchronous resonance
ST	sea surface temperature *or* supersonic transport *or* super self-aligned technology
SV	structured singular value
TAP	space-time adaptive processing
TATCOM	static compensator
TD	salinity-temperature-depth *or* subscriber trunk dialling
TEC	solar thermal energy conversion
TEM	scanning transmission electron microscopy
TEP	Standard for Exchange of Product Data
TI	scientific and technical information *or* shallow trench isolation
TL	Schottky transistor logic *or* Standard Template Library
TM	scanning tunnelling microscopy *or* synchronous transfer mode
TN	super twisted nematic
TO	Slater-type orbitals
TOL	short take-off and landing
TP	Slater-transfer Preuss
TS	scanning tunnelling spectra (-oscopy)
URMAC	surface magnetic confinement
USY GUT	supersymmetric grand unified theory
VC	static VAr compensator
VD	singular value decomposition
VM	support vector machine
VQ	split vector quantisation
W	short-wave
WAMI	sidewall masked isolation
WAP	synchronous wireless access protocol
WEAT	standard wafer-level electromigration accelerated test
WEPP	Stored Waste Examination Pilot Plant
WNT	single wall nanotube
WR	sodium water reactor *or* standing wave ratio
XAPS	soft X-ray appearance potential spectra (-oscopy)
XLS	Superconducting X-ray Lithography Source
H	track and hold
R	transmit/receive
	transverse acoustic
B	tape automated bonding
CS	Total Access Communications System
SI	time assignment speech interpolation
T	transatlantic telephone cable
BBA	terephthal-bis-butylaniline
BDF	transborder data flow
CAD	technology CAD
CAS	traffic alert and collision avoidance system
TCE	temperature (*or* thermal) coefficient of expansion
TCM	trellis-coded modulation
TCNE	tetracyanoethylene
TCNQ	tetracyanoquinodimethane
TCP/IP	Transport Control Protocol/Internet Protocol
TCR	temperature coefficient of resistance *or* thyristor-controlled reactor
TCSC	thyristor-controlled series compensation (capacitor)
TCXO	temperature-compensated crystal oscillator
TDD	ternary decision diagram *or* time division duplex
TDDB	time-dependent dielectric breakdown
TDF	Technology Demonstration Facility *or* transborder data flow
TDHF	time-dependent Hartree-Fock
TDI	time delay and integration
TDM	time division multiplex(ing)
TDMA	time division multiple access
TDMF	time-dependent mean field theory
TDPAC	time differential PAC
TDR	time domain reflectometry
TDRSS	tracking and data relay satellite system
TDS	thermal desorption spectra (-oscopy)
TE	transverse electric
TEA	transversely excited atmosphere
TED	transferred electron device *or* transient enhanced diffusion *or* transmission electron diffraction
TEGFET	two-dimensional electron gas FET
TEM	transmission electron microscopy *or* transverse electromagnetic
TEO	transferred electron oscillator
TEOS	tetraethylorthosilicate
TETRA	trans-European trunked radio
TEXT	Texas Experimental Tokamak
TF	toroidal field
TFCX	Toroidal Fusion Core Experiment
TFEL	thin film electroluminescent
TFSOI	thin film silicon on insulator
TFT	thin film transistor
TFTR	Tokamak Fusion Test Reactor
TGA	thermogravimetric analysis
TGFB	triglycine fluoroberyllate
TGS	triglycine sulphate
TGSe	triglycine selenate
THA	track-and-hold amplifier
THD	total harmonic distortion
THF	tremendously high frequency
THG	third harmonic generation
THORP	Thermal Oxide Reprocessing Plant
THORS	Thermal Hydraulic Out-of-Reactor Safety Facility
THTF	Thermal Hydraulic Test Facility
TIA	Telecommunications Industry Association
TID	travelling ionospheric disturbance
TIG	tungsten inert gas
TIL	two-interdigitation level
TINA	Telecommunications Information Network(ing) Architecture
TISSS	Tester-Independent Software Support System
TJS	transverse junction stripe

TLD	thermoluminescent dosimeter (-metry)
TLM	transmission line matrix
TM	transverse magnetic
TMAH	tetramethyl ammonium hydroxide
TMC	test module coil
TMHR	tandem mirror hybrid reactor
TMMC	tetramethylammonium manganese chloride
TMN	telecommunications management network
TMR	tandem mirror reactor *or* tunnel magnetoresistance
TMS	truth maintenance system
TMTSF	tetramethyltetraselenafulvalene (-inium)
TMTTF	tetramethyltetrathiafulvalene (-inium)
TMX-U	Tandem Mirror Experiment-Upgrade
TNS	The Next Step
TO	transverse optical
TOF	time-of-flight
TOFMS	time-of-flight mass spectra
TOI	thermal oxide isolation
TOP	Technical Office Protocol *or* transient overpower accident
TPAD	time differential perturbed angular distribution
TPC	time projection chamber
TPD	temperature programmed desorption
TPP	thermal power plant
TPS	test program(me) set
TPTF	Two Phase Flow Test Facility
TPV	thermophotovoltaic
TQFP	thin quad flat pack
TQM	total quality management
TR3	time-resolved resonant Raman
TRAPATT	trapped plasma avalanche triggered transit
TRD	transition radiation detector
TREAT	Transient Reactor Test Facility
TRM	thermoremanent magnetisation
TRRR	time-resolved resonant Raman (spectra (-oscopy))
TRU	transuranic (waste)
TRV	transient recovery voltage
TSA	tapered slot antenna
TSC	thermally stimulated currents *or* totally self checking
TSD	thermally stimulated desorption
TSEE	thermally stimulated exo-electron emission
TSeF	tetraselenafulvalene (-inium)
TSeT	tetraselenatetracene
TSIC	thermally stimulated ionic currents
TSMA/PCD	tone sense multiple access/partial collision detection
TSOP	thin small-outline package
TSP	travelling salesman problem
TSR	terminate and stay resident
TSTA	Tritium Systems Test Facility
TTC	telemetry tracking and command
TTF	tetrathiafulvalene (-inium)
TTL	transistor-transistor logic
TTMP	transit time magnetic pumping
TTT	temperature-time-transformation *or* tetrathiatetracene
TTY	teletype terminal
TUCA	transient undercooling accident
TUCOP	transient undercooled overpower accident
TUNNETT	tunnel transit time
TV	television
TVRO	TV receive only
TW	travelling wave
TWA	TW amplifier
TWOA	TW optical amplifier
TWT	TW tube
TWTA	TWT amplifier
TXRF	total reflection X-ray fluorescence
UART	universal asynchronous receiver transmitter
UBR	unspecified bit rate
UCHF	uncoupled Hartree-Fock
UCN	ultra-cold neutrons
UDP	user datagram protocol
UGS	unattended ground sensor
UHF	ultra-high frequency *or* unrestricted Hartree-Fock
UHPS	underground hydroelectric pumped storage
UHV	ultra-high voltage
UIMS	user interface management system
UJT	unijunction transistor
UK	United Kingdom
UKAEA	United Kingdom Atomic Energy Authority
ULA	uncommitted logic array
ULF	ultra-low frequency
ULSI	ultra-large scale integration
UMD	unitised microwave devices
UML	Unified Modeling Language
UMTS	universal mobile telecommunication system
UNI	user-network interface
UPFC	unified power flow controller
UPS	UV photoelectron spectra (-oscopy) *or* uninterruptible power supply
UPT	universal personal telecommunication
UPW	ultrapure water
URL	uniform resource locator
US	ultrasonic *or* United States
USART	universal synchronous/asynchronous receiver transmitter
USB	universal serial bus
USRT	universal synchronous receiver/transmitter
UTD	uniform theory of diffraction
UTP	unshielded twisted pair
UUT	unit under test
UV	ultraviolet
UWB	ultra-wideband
V/F	voltage-to-frequency
VACSY	variable angle correlation spectroscopy
VAD	vapour-phase axial deposition
VAN	value-added network
VANS	VAN services
VAWT	vertical axis wind turbine
VB	valence bond
VBL	vertical Bloch line
VBR	variable bit rate
VC	virtual circuit *or* Vapnik-Chervonenkis
VCCS	voltage-controlled current source
VCO	voltage-controlled oscillator
VCR	video cassette recorder
VCSEL	vertical cavity surface emitting laser
VCVS	voltage-controlled voltage source
VCXO	voltage-controlled crystal oscillator
VDM	vector dominance model *or* Vienna Development Methodology

)MOS	vertical double diffused MOS
)SL	very high-speed digital subscriber line
)T	visual display terminal
)U	visual display unit
)W	van der Waals
ER	visual evoked response
FD	vacuum fluorescent display *or* variable-frequency drive
FO	variable-frequency oscillator
GA	Video Graphics Array
GF	vertical gradient freeze
HDL	VHSIC HDL
HF	very high frequency
HPIC	very high-performance integrated circuit
HSIC	very high-speed integrated circuit
HSOL	very high-speed optical loop
HV	very high voltage
I&P	visual, intelligent and personal (communications)
IPER	verified processor for enhanced reliability
ISA	Virtual Instrument Software Architecture
JFET	vertical junction FET
LBI	very long base line interferometry
LBR	very low bit rate
LC	variable length code
LF	very low frequency
LIW	very long instruction word
LSI	very large scale integration
M	virtual machine
MEbus	versatile modular E-bus
MOS	vertical channel MOS
MS	Virtual Management System
NA	vector network analyser
OC	volatile organic compound
oD	video on demand
OR	VHF omnidirectional range
P	virtual path
PE	vapour phase epitaxy
PN	virtual private network
Q	vector quantisation
R	virtual reality
RAM	video RAM
RC	visual record computer
RML	Virtual Reality Modeling Language
S	virtual storage
SAT	very small aperture terminals
SB	vestigial sideband
SELP	vector sum excited linear prediction
SEPR	valence shell electron pair repulsion
SI	voltage source invertor
SOP	very small-outline package
SP	vertical seismic profiling
SS	variable structure systems
SWR	voltage standing wave ratio
TOL	vertical take-off and landing
TR	video tape recorder *or* voltage transformation ratio
UV	vacuum UV
VVF	variable voltage, variable frequency
XI	VME extensions for instrumentation
-CDMA	wideband CDMA
AAS	wide-area augmentation system
AN	wide-area network
WARC	World Administrative Radio Conference
WASP	WSI associative string processor
WATM	wireless asynchronous transfer mode
WATS	wide-area telecommunications service
WAXS	wide-angle X-ray scattering
WDF	wave digital filter
WDM	wavelength division multiplex(ing)
WDMA	wavelength division multiple access
WECS	wind energy conversion system
WHT	Walsh-Hadamard transform
WIMP	weakly interacting massive particle *or* windows, icons, mice, pull-down menus
WIP	work in progress
WIPO	World Intellectual Property Organisation
WIPP	Waste Isolation Pilot Plant
WKB	Wentzel-Kramers-Brillouin
WLAN	wireless LAN
WLL	wireless local loop
WLR	wafer-level reliability
WORM	write once, read many times
WP	word processing
WR	Wolf-Rayet
WSI	wafer scale integration
WTA	winner take(s) all
WWER	water-moderated water-cooled reactor
WWW	World Wide Web
WYSIWYG	what you see is what you get
WZW	Wess-Zumino-Witten
XANES	X-ray absorption near-edge structure
XCT	X-ray computerised tomography
XLPE	cross-linked polyethylene
XLS	X-ray Lithography Source
XOR	exclusive OR (logic)
XPD	cross-polarisation discrimination
XPS	X-ray photoelectron spectra
XRD	X-ray diffraction
XTEM	cross-sectional transmission electron microscopy
XUV	X-ray-UV
YAG	yttrium aluminium garnet
YIG	yttrium iron garnet
YM	Yang-Mills
YSO	young stellar object(s)
YSZ	yttria-stabilised zirconia
YTO	YIG tuned oscillator
ZAMS	zero-age main sequence
ZBLA	zirconium barium lanthanum aluminium fluoride
ZBLAN	zirconium barium lanthanum aluminium sodium fluoride
ZBLANP	zirconium barium lanthanum aluminium sodium lead fluoride
ZCS	zero-current switching
ZEKE	zero kinetic energy
ZGS	zero gradient synchrotron
ZIF	zero insertion force
ZMR	zone melting recrystallisation
ZPPR	zero-power plutonium reactor
ZRC	zero-field cooling(-ed)
ZTP	Z toroidal pinch
ZVS	zero-voltage switching
ZVT	zero-voltage transition

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ODENDOR *see optical double resonance*

ODMR *see microwave-optical double resonance*

odometers *see distance measurement*

OEIC *see integrated optoelectronics*

OEM *see DP industry*

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QC *see quality control*
QFP *see packaging*
QFSK *see frequency shift keying*
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RIE *see sputter etching*

Riemann-Cristoffel tensors *see tensors*

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rigid discs *see hard discs*

rigidity *see shear modulus*

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riometers *see ionospheric measuring apparatus*

RISC *see reduced instruction set computing*

risk analysis *see risk management; safety*

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SMT *see surface mount technology*

SNA *see open systems*

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SNOM *see near-field scanning optical microscopy*

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RM drives *see reluctance motor drives*
S-TDMA *see time division multiple access*
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TCM *see trellis coded modulation*

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VCCS *see active networks*

VCO *see voltage-controlled oscillators*

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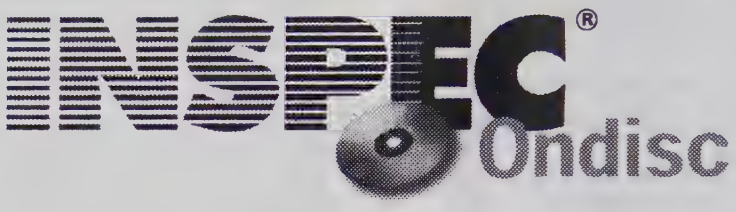
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